

Cypress™

Cypress Tech Talk

November 5, 2019



MITRE

The Office of the National Coordinator for
Health Information Technology



CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
 - QRDA Cat I R5.1 errata publication
 - Guidance for Data Uniqueness
 - Guidance for Reason Template Placement
 - Cypress 5.1.0 Patch Release
 - QRDA Category I R5.1 errata updates
 - 2019.1.0 Bundle
- Recent Issues
 - Known Issues Dashboard
- Cypress Versions
- Announcements
- Open Discussion
- Contact Information

Software Updates

QRDA Cat I R5.1 errata

- **On October 11, 2019 HL7 published an errata update to QRDA Category I R5.1**
 - It is available on the QRDA Category I product page http://www.hl7.org/implement/standards/product_brief.cfm?product_id=35.
 - Key updates in QRDA Category I – Introductory Material
 - 6.5.1 – Guidance for Ensuring Data Uniqueness
 - 6.5.2 - Guidance for Reason Template Placement When Specifying “Not Done” with a Reason

Software Updates

Guidance for Ensuring Data Uniqueness

- **The presence of duplicated data in a QRDA Category I file not only could potentially lead to increased data processing time, but most importantly, might cause incorrect processing and therefore produce unexpected measure results when calculated by other entities.**
 - Each reported QDM data element contains all of the attributes (e.g., discharge status, facility location, etc.) required by all measures, which are reported in the file, in the same QRDA template for the same instance.

Software Updates

Data Uniqueness and Cypress

■ Cypress 5.0.1 and prior merged QRDA entries with shared ID's

Encounter, Performed

- ID (root = 1.2.3, extension = 4)
- Code (code = 123)
- Admission date time (2/1/2018 @ 5:00 AM)
- Discharge date time (2/2/2018 @ 10:00 PM)
- **Diagnosis (code = 321)**

Encounter, Performed

- ID (root = 1.2.3, extension = 4)
- Code (code = 123)
- Admission date time (2/1/2018 @ 5:00 AM)
- Discharge date time (2/2/2018 @ 10:00 PM)
- **Discharge Disposition (code = 456)**

Encounter, Performed

- ID (root = 1.2.3, extension = 4)
- Code (code = 123)
- Admission date time (2/1/2018 @ 5:00 AM)
- Discharge date time (2/2/2018 @ 10:00 PM)
- **Diagnosis (code = 321)**
- **Discharge Disposition (code = 456)**

Software Updates

Data Uniqueness and Cypress, continued

- **Cypress 5.1.0 and beyond**
 - Will not merge data entries with common IDs.
 - Instead, Cypress will treat data entries as duplicative and will pick one entry to use with calculation.
 - A QRDA submitter needs to ensure that each reported QDM data element contains all of the attributes (e.g., discharge status, facility location, etc.) required by all measures, which are reported in the file, in the same QRDA template for the same instance.
 - As a result, calculations in Cypress 5.1.0 may not match previous calculations in Cypress 5.0.1.
 - If the QRDA files included duplicative QRDA entries.

Software Updates

Guidance for Reason Template Placement

- Specifying “Not Done” with a Reason
- “[...] will be nested directly within the element containing the negationInd attribute.”
- When both parent and child template allow negation, should be in ***parent*** template
- Example Reason Placement:

```
<!-- Communication from Provider to Patient(V4) -->
-->
<act classCode="ACT" moodCode="EVN"
negationInd="true" >
  <templateId root="2.16.840.1.113883.10.20.24.3.3"
  extension="2017-08-01"/>
  ...
  <!-- Reason(V3) for communication not done -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId
      root="2.16.840.1.113883.10.20.24.3.88"
      extension="2017-08-01"/>
      ...
    </observation>
  </entryRelationship>
</act>
```

Software Updates

Cypress 5.1.0

- **A 5.1.0 patch release for Cypress is planned for November 7, 2019**
- **The Cypress 5.1.0 patch will:**
 - Address the changes made to the QRDA Category I R5.1 errata
 - Address open ‘Known Issues’
 - “Related To” entries split across files (CYPRESS-1716)
 - ‘View Patients’ page only shows results for a single measure/population set (CYPRESS-1799)
 - Calculation Error for CMS104v8 with patient Z4 N Stroke (CYPRESS-1794)
 - Loading bundle crashes Cypress (CYPRESS-1751)
 - With 2019.1.0 bundle

Software Updates

Cypress 2019.1.0 Bundle

- **A 2019.1.0 bundle release for Cypress is planned for November 7, 2019**
 - The Cypress 2019.1.0 bundle will:
 - Include precalculated results for all of the Master Patients
 - Include measure highlighting for all of the Master Patients
 - Add diagnosis entries to Z6 VTE, Z13 N VTE, and B GP Peds to help with C4 Problem Filtering (CYPRESS-1790)
 - Add authorDatetime to 1 BH Infant to address calculation issue with CMS82v7

Recent Issue

Cypress Known Issues Dashboard

- <https://oncprojecttracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000>
- The Dashboard collects all labeled known issues in one place, sorted by Cypress version
- Easily navigate to the dashboard from the Cypress summary page

Cypress Known Issues
Add gadget Edit layout ...

Cypress Known Issues

Cypress Known Issues

Below are tables that list known issues for the most recent Cypress Versions

Release Notes for Cypress Versions can be found [here](#)

Filter Results: Cypress Known Bugs 5.0.1

Summary	2020 Reporting Period EH eCQMs	2020 Performance Period EP/EC eCQMs	Solution ↑	Links
fulfills entry extension lookup in separate file		CMS50v8/NQF374	If you run into this issue during a certification test, please have your Test Proctor refer to this ticket and regenerate a test deck for CMS50.	
Measure Validation engine	CMS108v8/NQFna, ... (1)		On QRDA import, Cypress shifts all times to UTC±00:00.	
			If calculation errors due to timezone shifting during a certification, have	

Cypress Versions

Version	Dates	Measures Supported
V4.0.3	May 2, 2019	
V4.0.4	October 3, 2019	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes QRDA and other 4.0.3 bugs.
V5.0.0	July 25, 2019	
V5.0.1	August 29, 2019	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains performance improvements and fixes for bugs found in Cypress v5.0.0
V5.1.0	*November 7, 2019	Support for QRDA Category I R5.1 errata

Bundle Version	Dates	Features
2018.1.0	October 11, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.
2019.0.1	July 25, 2019	Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year eCQM Value Sets as of 5/10/2019.
2019.1.0	*November 7, 2019	Cypress v5 only Precalculated results Updates to Z6 VTE, Z13 N VTE, B GP Peds and 1 BH Infant

Announcements

Now Available: Data Element Definitions for CMS eCQMs for 2020 Quality Reporting/Performance Period on the Collaborative Measure Development Workspace, Data Element Repository

October 10, 2019 - 10:45am

The Electronic Clinical [Quality Measure](#) (eCQM) [Data Element Repository](#) (DERep) located on the [Electronic Clinical Quality Improvement \(eCQI\) Resource Center](#) now includes information on the Centers for Medicare & Medicaid Services (CMS) [eCQMs](#) for both 2019 and 2020 reporting and performance periods. The DERep contains definitions for standardized eCQM data elements currently used in CMS quality and value-based programs and clearly presents data element definitions for all eCQMs used in CMS's quality reporting programs. The DERep provides clarity for clinicians, quality measurement specialists, [health information technology](#) (IT) developers/vendors, and IT staff when representing and mapping data required for eCQMs used in these programs.

<https://ecqi.healthit.gov/now-available-data-element-definitions-cms-ecqms-2020-quality-reporting/performance-period-collaborative-measure-development-workspace-data-element-repository>

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, November 19, 2019 at 1pm ET
- To join online, visit: <https://global.gotomeeting.com/join/529898157>
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Notes

- **Completed Webinars will be posted on the Cypress website on the Tech Talks tab**
 - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
 - project-cypress-talk@googlegroups.com
- **Report bugs and issues to the Cypress JIRA at**
 - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>